



DUAL CHANNEL HD ENCODING

# FEC

PRO-MPEG FEC



CLOSED CAPTIONING



STREAMING FORMATS

### VIDEO ENCODING

Interfaces	1x 3G-SDI Input 1x Component Input 1x HDMI Input 1x ASI Output 1x GigE
Supported Resolutions	H.264 up to 1080p60 Dual Channel Encoding up to 1080p60
Video Codecs	H.264 and MPEG-2*
Standard Definition	ISDB-T, DVB-H and others*
Output Formats	MPEG-2 TS, RTP, RTMP, RTSP, TS RTP, MPTS and TS File
Video Frame Rates (SD)	25i, 29.97i and 30i
Video Frame Rates (HD)	24p, 25p, 30p, 50p, 59.94i, 60i and 60p
Features	<ul style="list-style-type: none"> <li>•Pro-MPEG Forward Error Correction (FEC) for Encode and Decode</li> <li>•Closed Captioning (EIA-608, EIA-708)</li> <li>•High Quality Deinterlacer</li> <li>•Supports Unicast and Multicast</li> </ul>

### AUDIO ENCODING

Interfaces	Analog Jacks, Embedded HDMI and Embedded SDI Audio
Audio Codecs	AAC-LC ADTS and AAC-HE ADTS
Optional Audio Codecs*	AAC-LC LATM, AAC-HE LATM, AAC-HE V2, G.711 and PCM
Audio Bitrate	32 to 320 kbps

### SPECIFICATIONS

Dimensions	280 x 165 x 43 mm (11.02 x 6.50 x 1.69 in)
Weight	1.39 kg (3.05 lb)

### VIDEO DECODING

Interfaces	1x ASI Input 1x 3G-SDI Output 1x HDMI Output 1x GigE
Supported Resolutions	H.264 BP, MP and HP up to 1080p60
Input Formats	MPEG-2 TS, RTP and TS File
Video Frame Rates (SD)	25i, 29.97i and 30i
Video Frame Rates (HD)	24p, 25p, 30p, 50p, 59.94i, 60i and 60p

### AUDIO DECODING

Audio Codecs	AAC-LC ADTS and AAC-HE ADTS
Audio Bitrate	32 to 320 kbps

### OTHER

Network Management	Device IP, Subnet Mask, Gateway
Additional Interfaces	2x USB 2.0, SATA2 and RS-232
Software Control	HTTP-Based GUI: Configuration and Software Update RS-232: Configuration
Power	12V Power Supply 18W Typical Power Consumption
Temperature and Humidity	Operating: 0 to 40 Degrees C at 20-80% Relative Humidity Storage: -10 to 65 Degrees C at 20-80% Relative Humidity

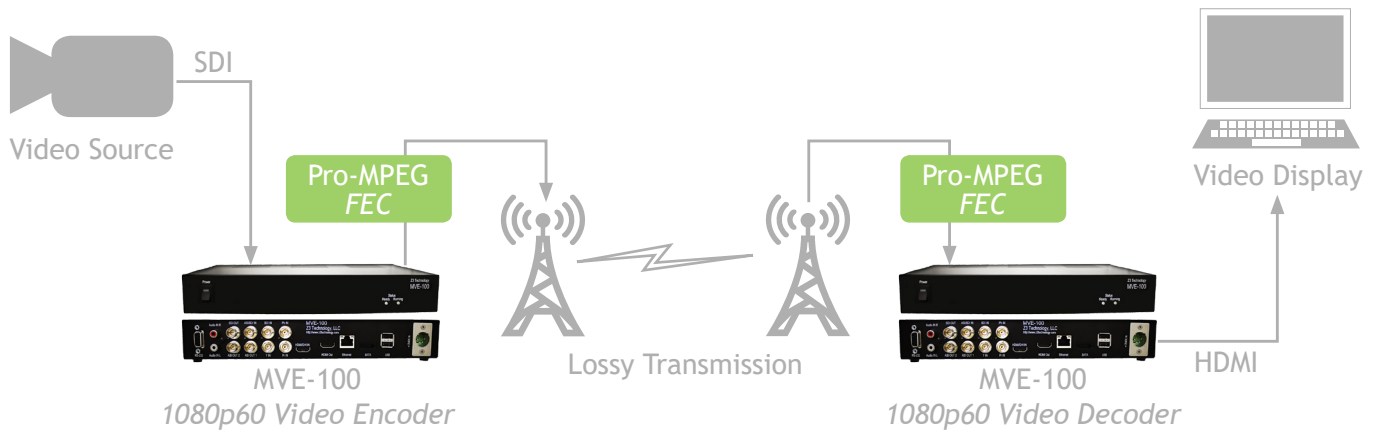
# FEC VIDEO STREAMING

## Z3-MVE-100



Broadcasting ■ IP Streaming ■ Security and Surveillance ■ Remote Monitoring

The MVE-100 features Forward Error Correction (FEC) technology. This feature is especially helpful when streaming video over a lossy network. The diagram below illustrates a video source sending content via SDI to our MVE-100. The SDI source is then encoded using H.264, after which the Pro-MPEG algorithm is applied to the encoded bit stream. The FEC coded bit stream is then sent over a lossy wireless network and received by another MVE-100R equipped with Pro-MPEG to correct network errors, decode H.264, and then present to a display for viewing.



## OPERATING CONTROLS



- ① Power Switch
- ② Status Lights
- ③ RS-232
- ④ Analog Stereo
- ⑤ (Top to Bottom)  
-SDI Output, ASI Output
- ⑥ (Top to Bottom)  
-ASI/SDI Input, ASI Output
- ⑦ (Top to Bottom)  
-SDI Input, Y Input
- ⑧ (Top to Bottom)  
-Pb Input, Pr Input
- ⑨ HDMI/DVI Input
- ⑩ HDMI Output
- ⑪ GigE
- ⑫ SATA2
- ⑬ 2x USB 2.0
- ⑭ 12V Power

\*Contact Z<sup>3</sup> Technology for Customized Product Options



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